FIGURE 1-1

```
   1 ttcaaaacccgattcccgaggcggccctattgaagatatgggggaagttcgacgagatcgatgtcgggtcgagtgctatg  80

  81 gtgatggtgccgtttgggggggaggatgagcgagatagccaagactagcattccgttcccacacagagttgggaatttgta 160

 161 ccaaatccaacacttgtcgtattggagcgacgatagggacgcggaaaaacacatccgttggatcagggagttgtacgatg 240
                              R1
 241 atctcgagccttatgtgtcgaagaatccgaggtatgcttacgtgaactacagggatctcgacatcgggatgaatggagga 320

 321 ggtgaaggggatgagaagggtacttatggtgaggctaaggtgtgggggggagaagtactttggggtcaactttgatcggtt 400
                                                                                R2
 401 ggttcgggtgaagacgattgttgatcccaataatgtgtttcgaaacgagcagagcattccctcaattccaactcggttat 480

 481 aaggatcaatgatcaatgagaattttcctttccaatgtgattacaagttctattgggtcagctttctcaactgctcctat 560

 561 tcatttagattaattcataacaactattaatttaccagccttttatccggcccgttggccgatttatttcttaagtttt 640

 641 agatgaaatgaaaccgatttagtttttattgagatgagattaatcttaatttgcttgaaatttactcacggttgatgtga 720
                                              R3
 721 tatttggaattaactaaaatgataaatatcggataaaaataaaaatatttaaaataaataacataaacataagaacaata 800
          I1                I1                                  R4
 801 aaataaataaatttaatttaatttatttccttgttttctttctgtatcatacatctcttctcttacttcttaaaggctt 880
      R4
 881 ttcaattatcacttaattaaatacaatagataaatcgttaattctataacattaacctatacacttgcacggtgaacaat 960
                                                                                R5
 961 caatatgataatataataataatataataattcaattattaatctacaatttttaattataaagtttatgcggtcagtt 1040

1041 tctgcaagctccgagctccttgtcatcgttagtttctgcggtctcaaggtataacgactcggagcgacgagccctttgct 1120
                                                          R1
1121 tccaatggacgggttgcatttctgccgtcgttgagctcgattggcgtgtcatgctggagtcagagttcctacaaaaaaac 1200

1201 cctaaactagagggtgattagggtgaaattagggtgttggcctgggttccattgtccaaagttttagtcaacttaaaaac 1280

1281 agacttaaattttatgcttcaaaatagtttatctgttattatattagcgtgtaattagtcttgacaatggggccggacgg 1360
```

FIGURE 1-2

```
1361 gtacggattcgggaccccgatccccgcccatagtgtaatggctcaactgccaagtcagcattggaccgaaattattggac 1440

1441 acgaagtactaatgtgaaaaactttacatttgttattttctactttaatactatgctattttcaaaatttgaactttaat 1520
                                                      R6                              R6
1521 actatgttttatatagtttagtatatcttaattttatgcaaattcatctaattgtattaaactattttcgatccgtag 1600
                                  R3
1601 ctaattatttcgaaggcaagtcaaagtgttattgtggactatgtgagctaatattgaacctttatctctcccaaccactc 1680

1681 aagttaattgaaccaaactcgatcggttgggtttcgagctatttcgagccattgttgttatatgcacgtgagatatcaag 1760
                           R2
1761 attgacccgaacactttattatgataatgtagaaaaagaaaacatattctaagactacatgcatgcaaagtgcaacccct 1840
                        I2                  I2
1841 gcatggaaagctgctcaacacgtggcatagactcccgccacgtgtccattccacctcatcacctcacccccaccgttcac 1920
                  CACA    ABRE
1921 ctcttattatatcacaacaatcaatcaatcctactcctccatactcgaacaaatccgaccaacttataccaatattccca 2000
       TATA          R5                                                    CAT
2001 aacttgattaatttctcagcaat ATG GAT CAG ACG CAC CAG ACA TAC GCC GGA ACC ACG CAG AAC  2065
   1                         M   D   Q   T   H   Q   T   Y   A   G   T   T   Q   N    14

2066 CCG AGC TAT GGC GGC GGG GGC ACA ATG TAC CAG CAG CAG CAG CCG AGG TCT TAC CAG GCG  2125
  15 P   S   Y   G   G   G   G   T   M   Y   Q   Q   Q   Q   P   R   S   Y   Q   A    34

2126 GTG AAG GCG GCC ACT GCA GCC ACC GCG GGT GGA TCC CTC ATC GTT CTG TCC GGT CTC ATC  2185
  35 V   K   A   A   T   A   A   T   A   G   G   S   L   I   V   L   S   G   L   I    54

2186 CTT ACG GCC ACC GTC ATT TCA CTC ATC ATA GCC ACC CCT CTC CTT GTC ATC TTC AGC CCT  2245
  55 L   T   A   T   V   I   S   L   I   I   A   T   P   L   L   V   I   F   S   P    74

2246 GTT CTT GTC CCG GCT CTC ATC ACC GTC GGG CTC TTG ATC ACC GGG TTT CTT GCT TCC GGT  2305
  75 V   L   V   P   A   L   I   T   V   G   L   L   I   T   G   F   L   A   S   G    94

2306 GGG TTC GGA GTC GCC GCC GTC ACC GTC TTG TCC TGG ATC TAT AG gtatgtataagctttggactt 2370
  95 G   F   G   V   A   A   V   T   V   L   S   W   I   Y   R                     109

2371 tagtattgttataaaatacataagctgatttatgaacatggatctcccaacaagagttatttaaatgcattctcggtctg 2450
```

FIGURE 1-3

```
2451 actcgatcggttgggttttgagctactcggtcacaatggtcgggtcggctctggatctgttatactaatatttggaagcc 2530

2531 tgaagtttcattgttctgccccaacttcccactacctttgagggtgttaagaagccatacaaactaattatgaatccct 2610

2611 cccaacaactcagaactcgagtcagtgggttgtgacggttctctataaacatttcgaaaatctttgttcaatgaacgtag 2690

2691 aaatgaccatgcttgatgattgtgggtcttataag G TAC GTG ACC GGC GGG CAC CCG GCG GGA GGG    2756
 110                                      Y   V   T   G   G   H   P   A   G   G      119

2757 GAT TCG CTG GAC CAG GCT AGG TCG AAG CTG GCC GGA AAG GCC AGG GAG GTG AAG GAC AGG  2816
 120 D   S   L   D   Q   A   R   S   K   L   A   G   K   A   R   E   V   K   D   R    139

2817 GCG TCG GAG TTC GCA CAG CAG CAT GTC ACA GGT GGT CAA CAG ACC TCT TAA agagagtcctct 2879
 140 A   S   E   F   A   Q   Q   H   V   T   G   G   Q   Q   T   S   *                156

2880 agttaaattggtcttcgtttctgtttcgtggcggcttgtaaactctcttttaagtgtgctgttttccttttgtctcgtgt 2959

2960 gttgtaagtgaaagtgtaatcgaagttccaagttggagatgtttgtaacgatgatgttttctaataatcagagatattaa 3039
                                                                  Poly A signal
3040 aagggttgctaatttagtattgcgtctgatctcggaccaaactcgcaagtaaaattgcagaggatgagttgtacagaaca 3119

3120 agcgtgcattgttctggaagttcatctccttggagccgaccttgttgcttgcagtttcgccaagtccactagacaatgtt 3199

3200 acgagttaagcctctgtcaaacagatcgctctagcgtcccagaaaacaccagatttttcgaaaaccatcggggatcaatt 3279

3280 ttcgattcaattccgatcttggaagtacttgaacagaagcatgatgctaaaagataatagaaaatcgaagcctagaaaag 3359

3360 ttgtacagaaagcaacaagtcaaaaatatagatcaacttcaaaggttcaaattacatcttacagaccccaaaaaatgaca 3439

3440 gttaacagaagtcgactaaacagaaaccagccagcttcacctggaatgaaggagctttgatcaatccatcctagcttcat 3519

3520 tccccttttgaaattgcagacagagctctcatcctgctaaagctggtggcttattcttaaccctgcaatcaataagcatga 3599

3600 actaacattggacaccttcatcggcggattgctcgaaaatcagtgagcgagggatttacctgtgtgtgtagtaacctctc 3679
```

FIGURE 1-4

3680 tccttgtacataaaatctggaaattccggcatcaactactgccacctttctgcttaaggtgatttttatcaccaaggctga 3759

3760 gcgtgattccttgcgtcttgctccgaatcctgatgtatccactgagctttccatctccttccttctccaggcttatgttc 3839

3840 accaatgcgtcctcgccgaacacactcttggcgtacaagttcgcagccaggaatccacactctccatcaagtgcagacct 3919

3920 gcaaaccccaaataagaacacaaactccaaagtcaacgatcaattctccgcctttttatgaagaaaaggaaacttctgggt 3999

4000 acttacggtgccgtcagacacttcatatttgtagacttgatgatatggtccaggaattccttctcgttcttgaattgttgt 4079

4080 gttaacagcaacctgacagacagaaagatatcgcaaatttaagatactgggatgactaggcacagagaaatgaaatctaa 4159

4160 ttctagaagtaaaaccttatttttcccattcaaattctgcccacatagtccggaacgcagcatccgagcaagaagcaggag 4239

4240 agatgtaatccatgatatcgatgtggatatcgttgaggacgacaactgaacgttccatcacattgg 4305

FIGURE 2-1

Title: Flax Seed Specific Promoters
Inventor(s): Sarita CHAUDHARY, et al.
DOCKET NO.: 058187-0109

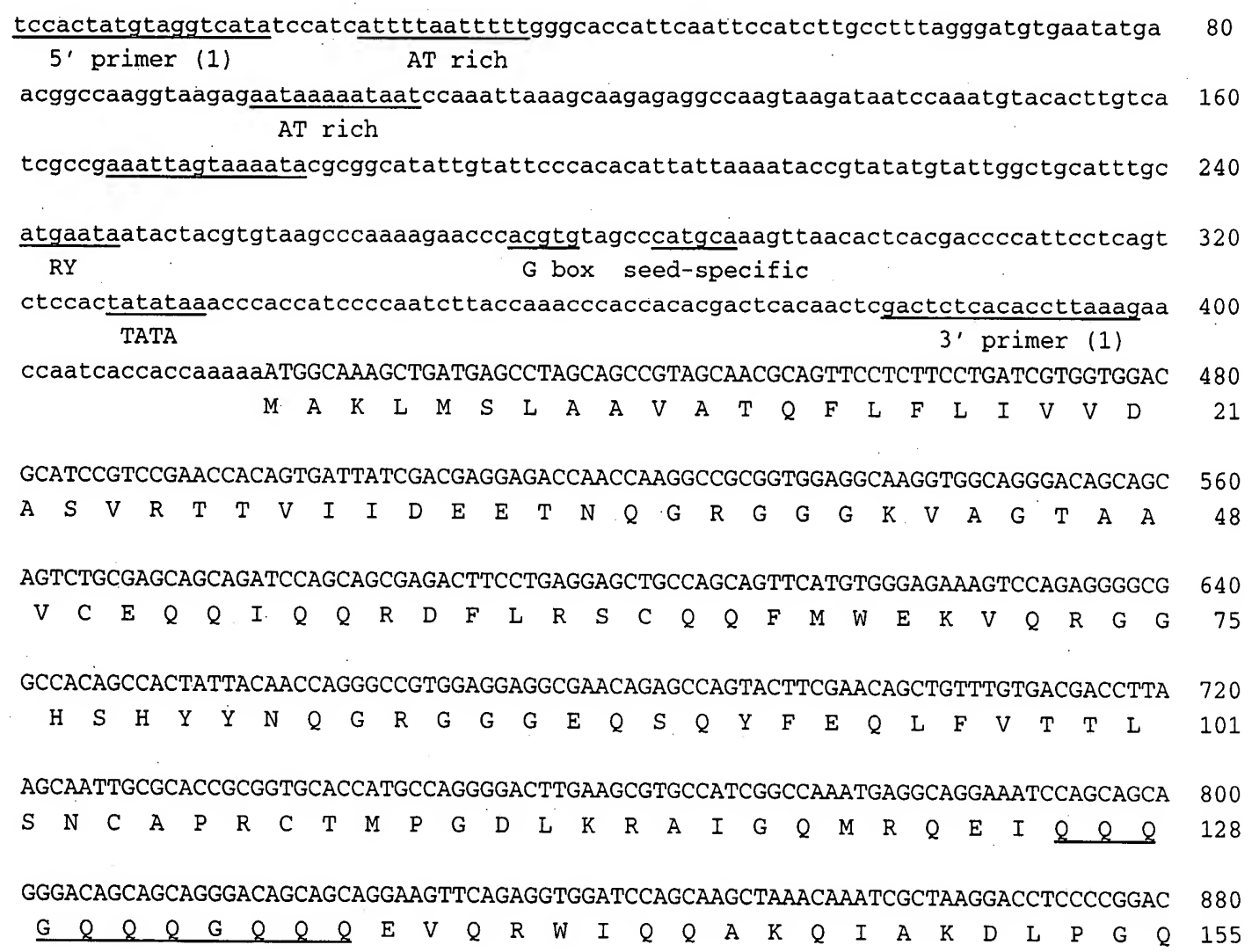
FIGURE 2-2

```
1361 aggcaagatcatgacacgtcgaagttaagtgaatgagactcctaacaaggtaataacaaagcagttcataaaccgaatga 1440
                                                                          R1
1441 ccttgatctttactaagcttgagatcattgaacatataattaaatacgttaatgaaagataagaactttaatataaaaat 1520
                                              R4
1521 cattcaaaacgagaaactgataacaaaaacaaagcaaacggccaacaaaataatagacggtggaaggatgatgcagagcc 1600
                                                                        R5
1601 atccacccttttttcccagtttccttactgcttacttctctatgcatatcacaagacgcccttgaaacttgttagtcatg 1680

1681 cagagcccttactcgccaggtcaccgcaccacgtgttactctatcacttctcctccctttcctttaaagaaccaccacgc 1760
     R5
1761 cacctccctctcacaaacactcataaaaaaaccacctcttgcatttctcccaagttcaaattagttcacagctaagcaag 1840

1841 aactcaacaaca ATG GCG GAT CGT ACA ACA CAG CCA CAC CAA GTC CAG GTC CAC ACC CAG CAC 1903
   1             M   A   D   R   T   T   Q   P   H   Q   V   Q   V   H   T   Q   H  17

1904 CAC TAT CCC ACC GGC GGG GCT TTC GGC CGT TAT GAA GGT GGA CTC AAA GGC GGT CCA CAT 1963
  18 H   Y   P   T   G   G   A   F   G   R   Y   E   G   G   L   K   G   G   P   H  37

1964 CAC CAG CAA GGA TCA GGC AGC GGC CCA TCA GCT TCC AAG GTG TTA GCA GTC ATG ACC GCG 2023
  38 H   Q   Q   G   S   G   S   G   P   S   A   S   K   V   L   A   V   M   T   A  57

2024 CTC CCC ATC GGC GGG ACC CTC CTT GCC TTG GCC GGG ATA ACC TTG GCT GGG ACG ATG ATC 2083
  58 L   P   I   G   G   T   L   L   A   L   A   G   I   T   L   A   G   T   M   I  77

2084 GGG CTG GCG ATC ACC ACC CCG ATT TTT GTC ATC TGC AGC CCT GTT CTA GTC CCG GCC GCT 2143
  78 G   L   A   I   T   T   P   I   F   V   I   C   S   P   V   L   V   P   A   A  97

2144 CTG CTC ATC GGG TTT GCC GTG AGC GCG TTT CTG GCC TCG GGG ATG GCC GGG CTG ACA GGG 2203
  98 L   L   I   G   F   A   V   S   A   F   L   A   S   G   M   A   G   L   T   G  117

2204 CTG ACC TCG CTG TCG TGG TTT GCG AGG TAT CTG CAG CAG GCT GGG CAG GGA GTT GGA GTG 2263
 118 L   T   S   L   S   W   F   A   R   Y   L   Q   Q   A   G   Q   G   V   G   V  137

2264 GGG GTG CCG GAT AGT TTC GAG CAG GCG AAG AGG CGC ATG CAG GAT GCT GCT GGG TAT ATG 2323
 138 G   V   P   D   S   F   E   Q   A   K   R   R   M   Q   D   A   A   G   Y   M  157
```

FIGURE 2-3

```
2324 GGG CAG AAG ACC AAG GAA GTT GGG CAG GAG ATC CAG AGG AAG TCT CAG GAT GTG AAA GCA 2383
 158 G   Q   K   T   K   E   V   G   Q   E   I   Q   R   K   S   Q   D   V   K   A   177

2384 TCA GAC AAA TAA ggtgataataaggggttttgggttcgtgtgtaaactggtaaaatggaaattctgggttttactg 2459
 178 S   D   K   *                                                                   181

2460 tacttttgcatgtagtggaatgaatgagttcttgttctcttttgtcttttaatcataaagtaagaagcagcatttcatgt 2539

2540 tctggttgaatattgtcaagaattcgcaacaaatttagctaaaccagttcaatcttaccggttagacgacttcccagtaa 2619

2620 gaaacattccaggtccatcccggtataagagtctggacttctgaaacctttagaccttggatttggaaaaaagatgaaac 2699

2700 ctttagaataaattacaacgatggcagattgtacaaaactggagtcgagatcatgtaaattagcccataactaagaaccg 2779

2780 gcgatgacaacaattactaggaatatggttgttgggctggtcggcggctagcggtgatgatttggaagaatcggggatcc 2859

2860 agaatgtgagaaccgaatcatcgacgaacattacccggcgaggagcccatttcaagcaactttggaactcctatatggct 2939

2940 gttccagcaggccacctgctcaagaaagaaagaagccatgtcagaaatccttacgaaatctaactggatgctgatatgaa 3019

3020 tccgccaggtgtgcggagttctttacaggcaggatctataaagaagaaacatgttttgtattggcattgttgatgttcca 3099

3100 agcacgcagcgatctatctccggatcctaacaacaaaaatacggattctgtaagaaacaagcgcagaaaacttctgcaac 3179

3180 gaaaccactcgtatatttggttctgagttggagaaagatgaccatactactgtatttggttgaacttggattggaaccga 3259

3260 aattttgagttgaaaagcgagtgatcgtatataaatttcagattcagattaggatatcctatgagagaaggtagagttac 3339

3340 ctgatactacatactgcccatcaggggtaaaagttgcctcgatggttgtgtttggagatggttccaggctaaatccacaa 3419

3420 cgctgaacaaattaaaagatgaatggatcaatcttcaacccttacttctgcatttatgaggattggctcaaggctctcta 3499

3500 ga                                                                              3501
```

FIGURE 3-1



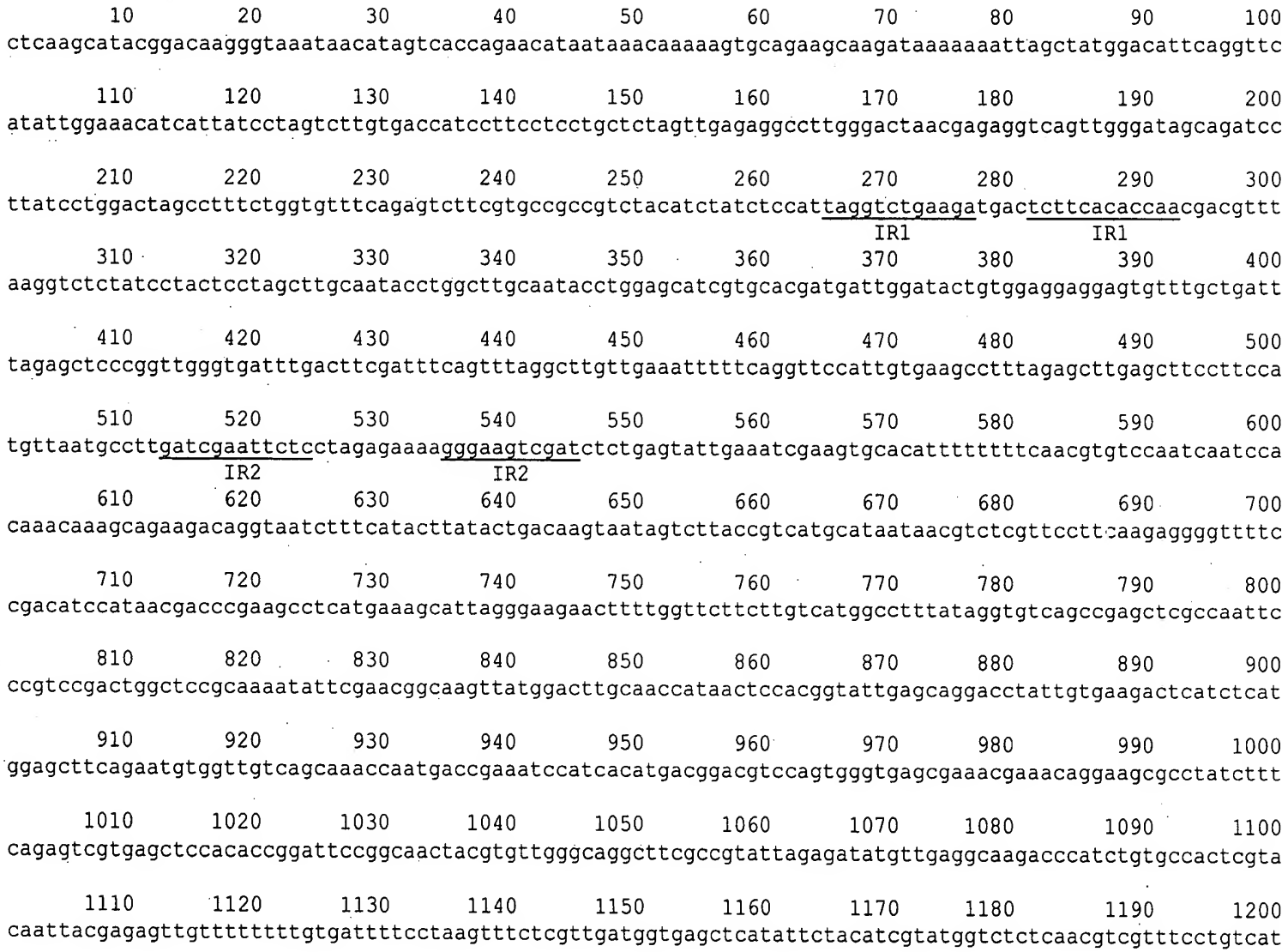
Title: Flax Seed Specific Promoters
Inventor(s): Sarita CHAUDHARY, et al.
DOCKET NO.: 058187-0109

FIGURE 3-2

```
881  AGTGCCGCACCCAGCCTAGCCAATGCCAGTTCCAGGGCCAGCAGCAATCTGCATGGTTTTGAaggggtgatcgattatga 960
156    C  R  T  Q  P  S  Q  C  Q  F  Q  G  Q  Q  Q  S  A  W  F  *    5'primer (2)     175

961  gatcgtacaaagacactgctaggtgttaaggatggataataataataataatgagatgaatgtgttttaagttagtgtaa 1040

1041 cagctgtaataaagagagagagagagagagagagagagagagagagagagagagagagagaggctgatgaaatgttat 1120

1121 gtatgtttcttggtttttaaaataaatgaaagcacatgctcgtgtggttctatcgaattattcggcggttcctgtgggaa 1200

1201 aaagtccagaagggcggccgcagctactactacaaccaaggccgtggaggagggcaacagagccagcacttcgatagctg 1280

1281 ctgcgatgatcttaagcaattgaggagcgagtgcacatgcaggggactggagcgtgcaatcggccagatgaggcaggaca 1360

1361 tccagcagcagggacagcagcaggaagttgagaggtggtcccatcaatctaaacaagtcgctagggaccttccgggacag 1440

1441 tgcggcacccagcctagccgatgccagctccaggggcagcagcagtctgcatggttttgaagtggtgatcgatgagatcg 1520

1521 tataaagacactgctaggtgttaaggatgggataataagatgtgttttaagtcattaaccgtaataaaaagagagagagg 1600

1601 ctgatggaatgttatgtatgtatgtttcttggtttttaaaattaaatggaaagcacatgctcgtgtgggttctatc     1676
                                                                  3'primer (2)
```

Title: Flax Seed Specific Promoters
Inventor(s): Sarita CHAUDHARY, et al.
DOCKET NO.: 058187-0109

FIGURE 4-1



Title: Flax Seed Specific Promoters
Inventor(s): Sarita CHAUDHARY, et al.
DOCKET NO.: 058187-0109

FIGURE 4-2

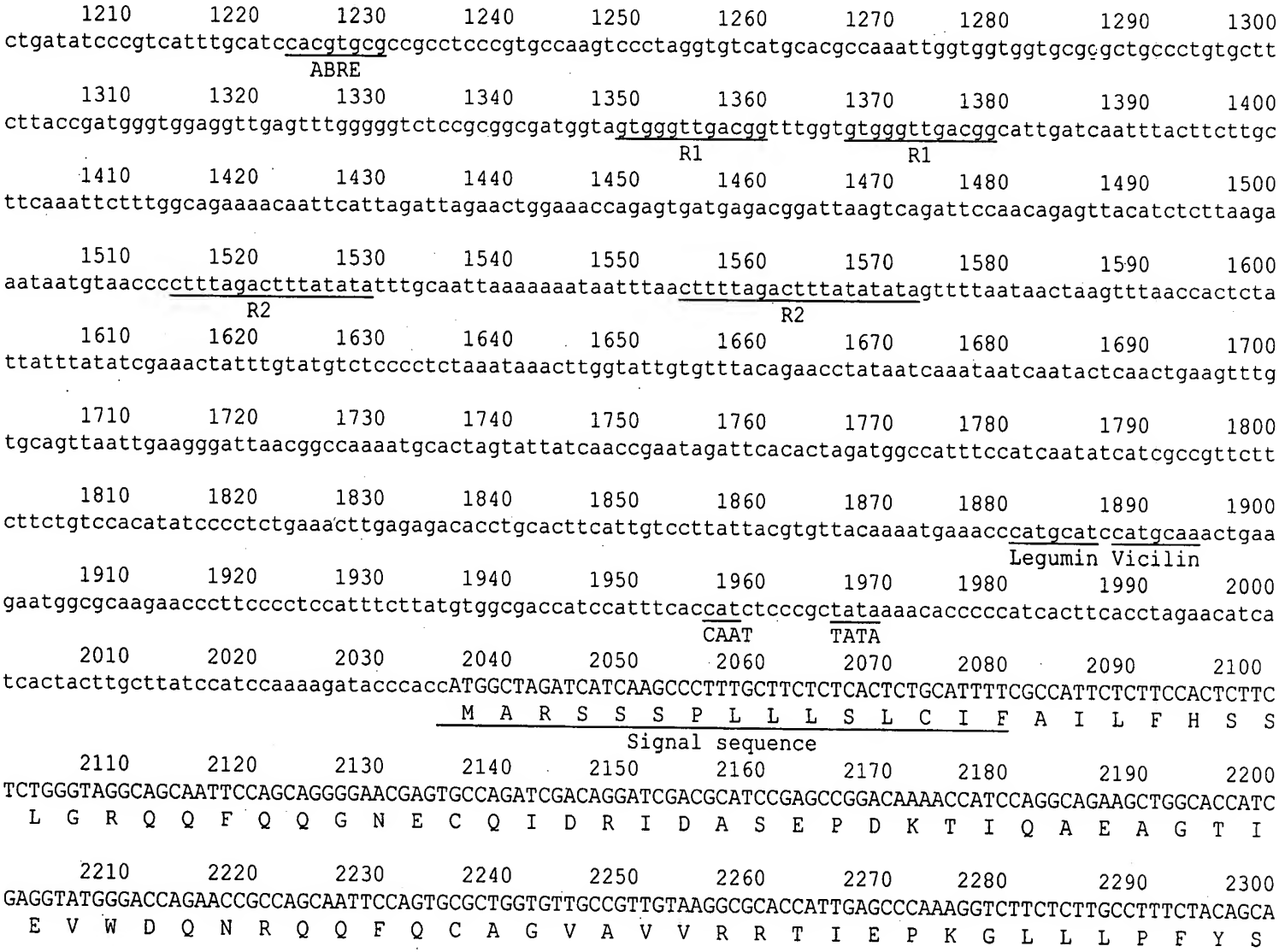
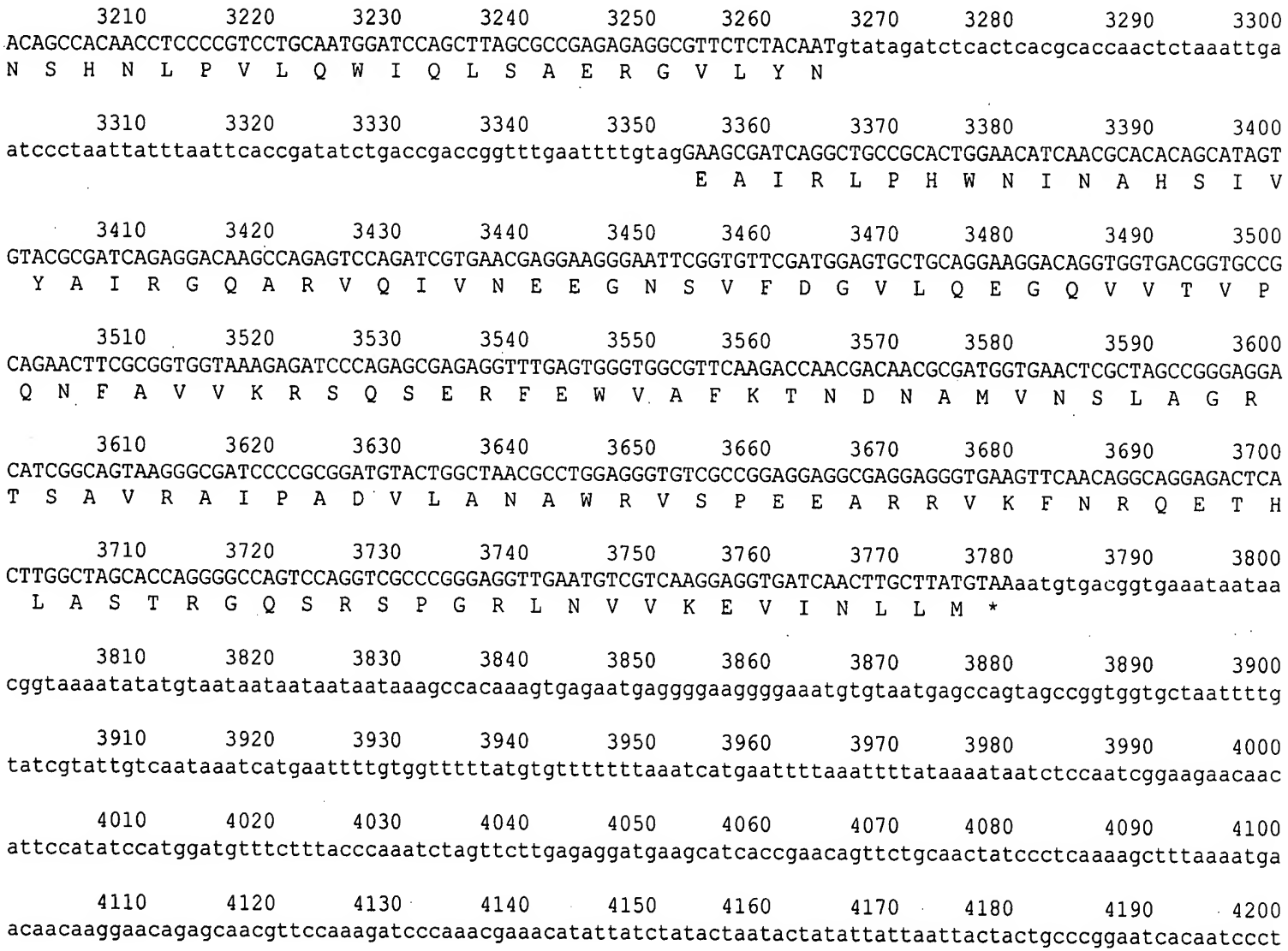

1210 1220 1230 1240 1250 1260 1270 1280 1290 1300
ctgatatcccgtcatttgcatccacgtgcgccgcctcccgtgccaagtccctaggtgtcatgcacgccaaattggtggtggtgcggctgccctgtgctt
ABRE
1310 1320 1330 1340 1350 1360 1370 1380 1390 1400
cttaccgatgggtggaggttgagtttgggggtctccgcggcgatggtagtgggttgacggtttggtgtgggttgacggcattgatcaatttacttcttgc
R1 R1
1410 1420 1430 1440 1450 1460 1470 1480 1490 1500
ttcaaattctttggcagaaaacaattcattagattagaactggaaaccagagtgatgagacggattaagtcagattccaacagagttacatctcttaaga
1510 1520 1530 1540 1550 1560 1570 1580 1590 1600
aataatgtaacccctttagactttatatatttgcaattaaaaaaataatttaacttttagactttatatatagttttaataactaagtttaaccactcta
R2 R2
1610 1620 1630 1640 1650 1660 1670 1680 1690 1700
ttatttatatcgaaactatttgtatgtctcccctctaaataaacttggtattgtgtttacagaacctataatcaaataatcaatactcaactgaagtttg
1710 1720 1730 1740 1750 1760 1770 1780 1790 1800
tgcagttaattgaagggattaacggccaaaatgcactagtattatcaaccgaatagattcacactagatggccatttccatcaatatcatcgccgttctt
1810 1820 1830 1840 1850 1860 1870 1880 1890 1900
cttctgtccacatatcccctctgaaacttgagagacacctgcacttcattgtccttattacgtgttacaaaatgaaacccatgcatccatgcaaactgaa
Legumin Vicilin
1910 1920 1930 1940 1950 1960 1970 1980 1990 2000
gaatggcgcaagaacccttcccctccatttcttatgtggcgaccatccatttcaccatctcccgctataaaacacccccatcacttcacctagaacatca
CAAT TATA
2010 2020 2030 2040 2050 2060 2070 2080 2090 2100
tcactacttgcttatccatccaaaagatacccaccATGGCTAGATCATCAAGCCCTTTGCTTCTCTCACTCTGCATTTTCGCCATTCTCTTCCACTCTTC
M A R S S S P L L L S L C I F A I L F H S S
Signal sequence
2110 2120 2130 2140 2150 2160 2170 2180 2190 2200
TCTGGGTAGGCAGCAATTCCAGCAGGGGAACGAGTGCCAGATCGACAGGATCGACGCATCCGAGCCGGACAAAACCATCCAGGCAGAAGCTGGCACCATC
L G R Q Q F Q Q G N E C Q I D R I D A S E P D K T I Q A E A G T I
2210 2220 2230 2240 2250 2260 2270 2280 2290 2300
GAGGTATGGGACCAGAACCGCCAGCAATTCCAGTGCGCTGGTGTTGCCGTTGTAAGGCGCACCATTGAGCCCAAAGGTCTTCTCTTGCCTTTCTACAGCA
E V W D Q N R Q Q F Q C A G V A V V R R T I E P K G L L L P F Y S

FIGURE 4-3

```
      2310       2320       2330       2340       2350       2360       2370       2380       2390       2400
ACACCCCTCAGCTCATCTACATCGTTCAAGgtataaattaaatcagttcatacaatgataaccaccacttcgaatgtatttatcaaatatcaatgatcga
N  T  P  Q  L  I  I  Y  I  V  Q

      2410       2420       2430       2440       2450       2460       2470       2480       2490       2500
tgcacctgtatgtgttgtatattcagGTAGGGGAGTTACAGGAATCATGTTCCCAKGATGTCCAGAGACATTCGAGGAATCCCAGCAGCAAGGACAAC
                                 G  R  G  V  T  G  I  M  F  P  X  C  P  E  T  F  E  E  S  Q  Q  Q  G  Q

      2510       2520       2530       2540       2550       2560       2570       2580       2590       2600
AGGGCCAACAGGGTAGTTCCCAAGACCAGCACCAGAAGATCCGCCGCTTCCGTGAAGGTGACGTCATTGCCGTCCCTGCCGGTGTAGCCCACTGGTCCTA
Q  G  Q  Q  G  S  S  Q  D  Q  H  Q  K  I  R  R  F  R  E  G  D  V  I  A  V  P  A  G  V  A  H  W  S  Y

      2610       2620       2630       2640       2650       2660       2670       2680       2690       2700
CAACGATGGCAACGAACCAGTCATGGCCATTGTTGTCCATGACACTTCCAGCCACCTCAACCAACTGGACAACACCCCAGGgtatataagcattgccgt
N  D  G  N  E  P  V  M  A  I  V  V  H  D  T  S  S  H  L  N  Q  L  D  N  N  P  R

      2710       2720       2730       2740       2750       2760       2770       2780       2790       2800
agttgctaataaattgcacacaattggaactctatttcagtatctaatacttttttcctttttggcagAACTTCTACTTGGCAGGAAACCCGAGAGAC
                                                                                 N  F  Y  L  A  G  N  P  R  D

      2810       2820       2830       2840       2850       2860       2870       2880       2890       2900
GAGTTCGAACAATCGCAGCAAGGAGGCAGGCTGAGCCGTGGGGAGAGTGAAGGTGGACGAGGACGCAGGGAACCTCTTCAACCTGCAACAACCTCTTCTT
E  F  E  Q  S  Q  Q  Q  G  G  R  L  S  R  G  E  S  E  G  G  R  G  R  R  E  P  L  Q  P  P  A  T  T  S  S

      2910       2920       2930       2940       2950       2960       2970       2980       2990       3000
GCGGAATCGACTCCAAGCTCATCGCGGAGGCGTTCAATGTCGACGAGAACGTGGCAAGGAGGCTACAGAGCGAGAACGACACAACAGAGGCCAGATCGTCCG
C  G  I  D  S  K  L  I  A  E  A  F  N  V  D  E  N  V  A  R  R  L  Q  S  E  N  D  N  R  G  Q  I  V  R

      3010       3020       3030       3040       3050       3060       3070       3080       3090       3100
AGTCGAAGGCGAGCTCGACATCGTCAGACCTCCGACCAGTATCCAGGAGGAGTCACAGGAGCAGGGAGGTCGTGGTGGTGGCCGCTACTACTCCAATGGA
V  E  G  E  L  D  I  V  R  P  P  T  S  I  Q  E  E  S  Q  E  Q  G  G  R  G  G  G  R  Y  Y  S  N  G

      3110       3120       3130       3140       3150       3160       3170       3180       3190       3200
GTGGAGGAGACCTTCTGCTCCATGAGACTAATTGAGAACATCGGCGATCCTTCTCGGCAGACATTTCACTCCAGAAGCCGGCCGCGTTAGATCCCTCA
V  E  E  T  F  C  S  M  R  L  I  E  N  I  G  D  P  S  R  A  D  I  F  T  P  E  A  G  R  V  R  S  L
```

FIGURE 4-4



Title: Flax Seed Specific Promoters
Inventor(s): Sarita CHAUDHARY, et al.
DOCKET NO.: 058187-0109

FIGURE 4-5

```
      4210       4220       4230       4240       4250       4260       4270       4280       4290       4300
gaatgattcctattaactacaagccttgttggcggcggagaagtgatcggcgcggcgagaagcagcggactcggagacgaggccttggatgagcagagtc

      4310       4320       4330       4340       4350       4360       4370       4380       4390       4400
tttacctgccagggcgtgaaggggaagagcggccttctggagtaggagttcagcaagcggcggttccttggcggagtaagcggacgtaagggtggntgtc

      4410       4420       4430       4440       4450       4460       4470       4480       4490       4500
gacgtcntcgtttcnggaggcgnattcatgaagggttaaagtcanatctgtagctctcgagtgctcagggagccnaaagacgttgggaaaccgtcgncgt

      4510       4520       4530       4540       4550       4560       4570       4580       4590       4600
ttggggcatcagtcngcggggcacgcttccctcctgctgctccanaancnangtanatttaaaaganatgggaaattaantaatggnaatnannaggagg

      4610       4620       4630       4640       4650       4660       4670       4680       4690       4700
attgnaacggtcnganccgnangaanagtttttannggtttaaatactgggggagtngnagccngccnctggttccngtgtagangaaaccaagnnccgg

      4710       4720       4730       4740       4750       4760       4770       4780       4790       4800
gaggnttncannngnnagggagaaaaaggganncatttnannangcngagggacatgaancggtacngagctgnggttcannnancggcgnnnggnagtcc

      4810       4820       4830       4840       4850       4860       4870       4880       4890       4900
cnngggaccnggntggggtnanaagggaanggaacattnggtngnangganaanaccnttttacnattgcctttgcaggnnngtntnggcncntncgggt

      4910       4920       4930       4940       4950       4960       4970       4980       4990
nacatnccgctgcatgggctttggggngccnanaggnagccncangggnannengccncccttgtncangncgctnaagttcnattgtanatggncgttg
```

FIGURE 5

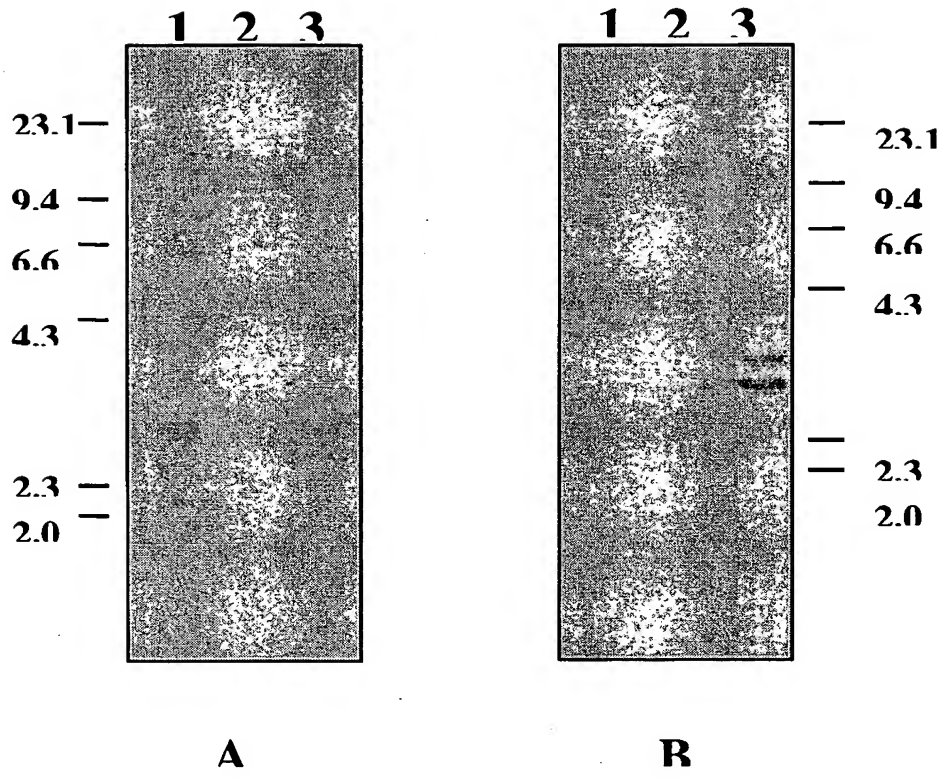


FIGURE 6

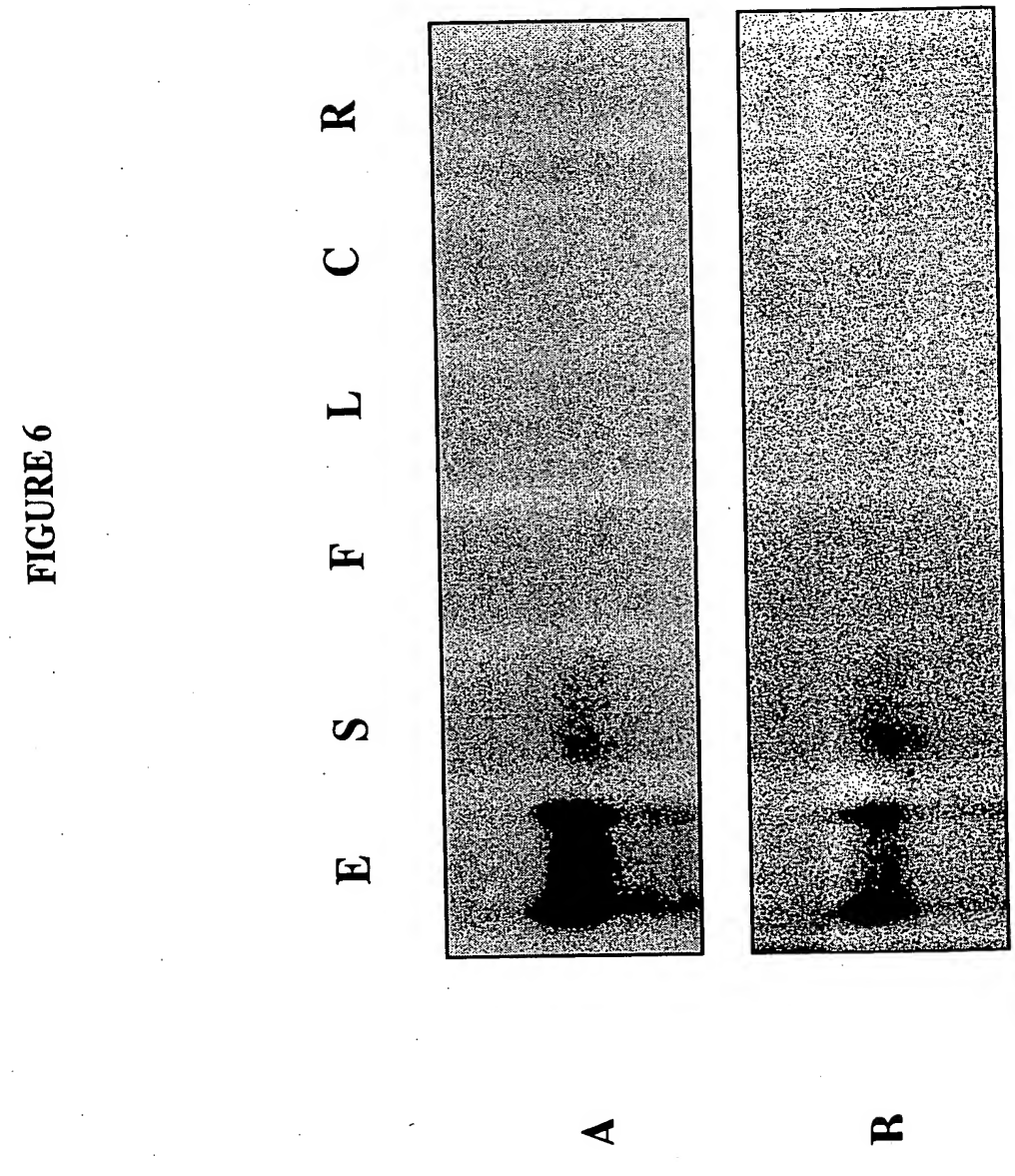


FIGURE 7

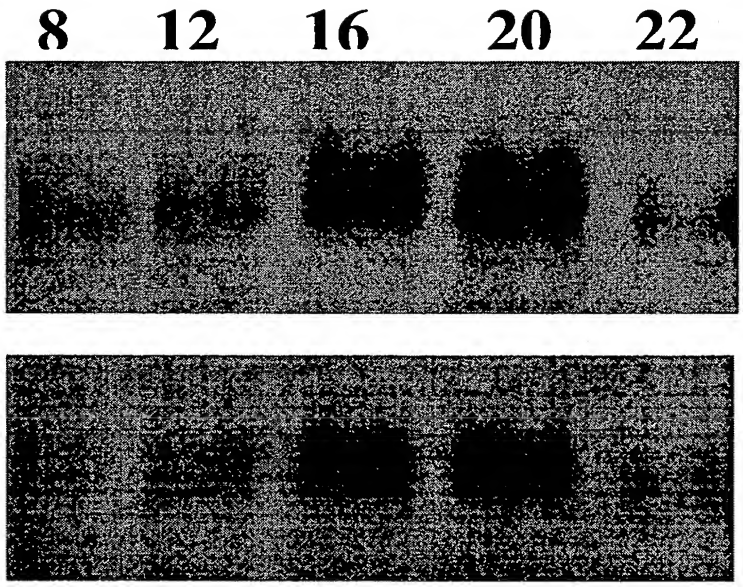


FIGURE 8

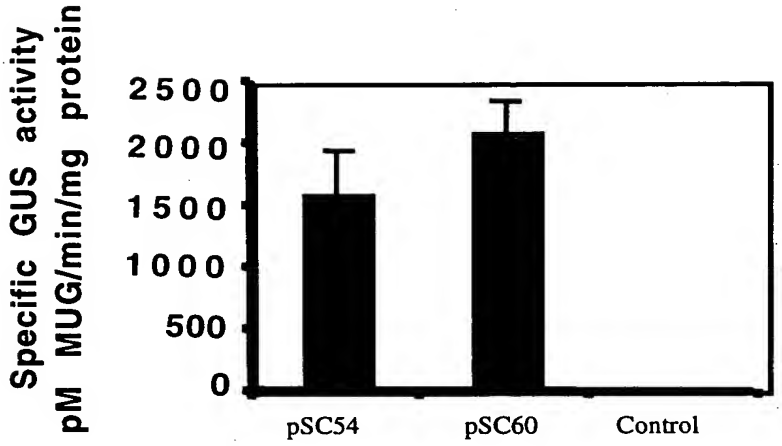

Specific GUS activity
pM MUG/min/mg protein
2500
2000
1500
1000
500
0
pSC54
pSC60
Control

Figure 9.1

Figure 9.2

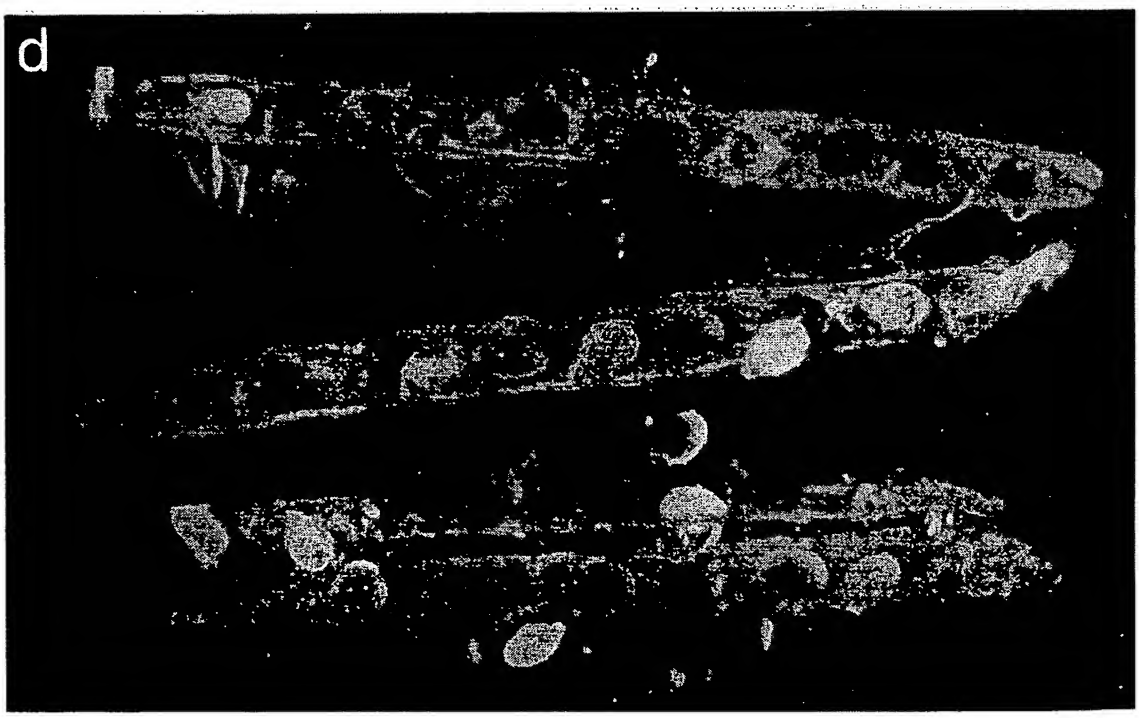


FIGURE 10

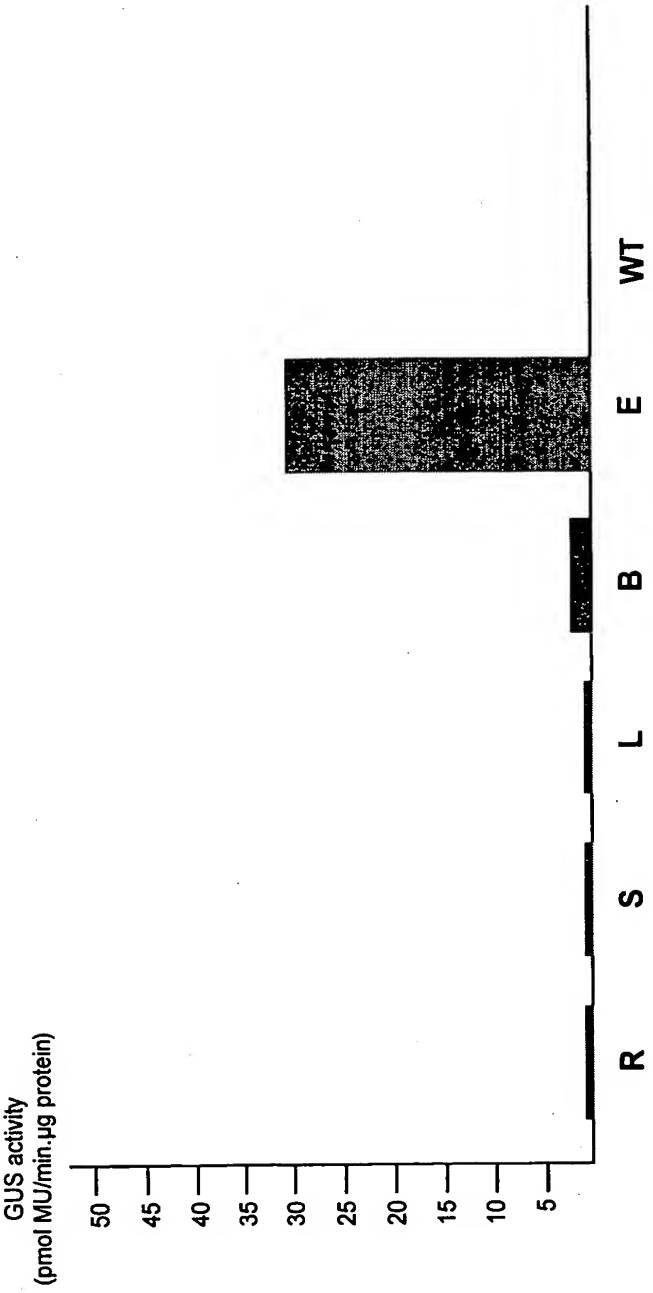

GUS activity
(pmol MU/min.µg protein)
50
45
40
35
30
25
20
15
10
5
R
S
L
B
E
WT

FIGURE 11

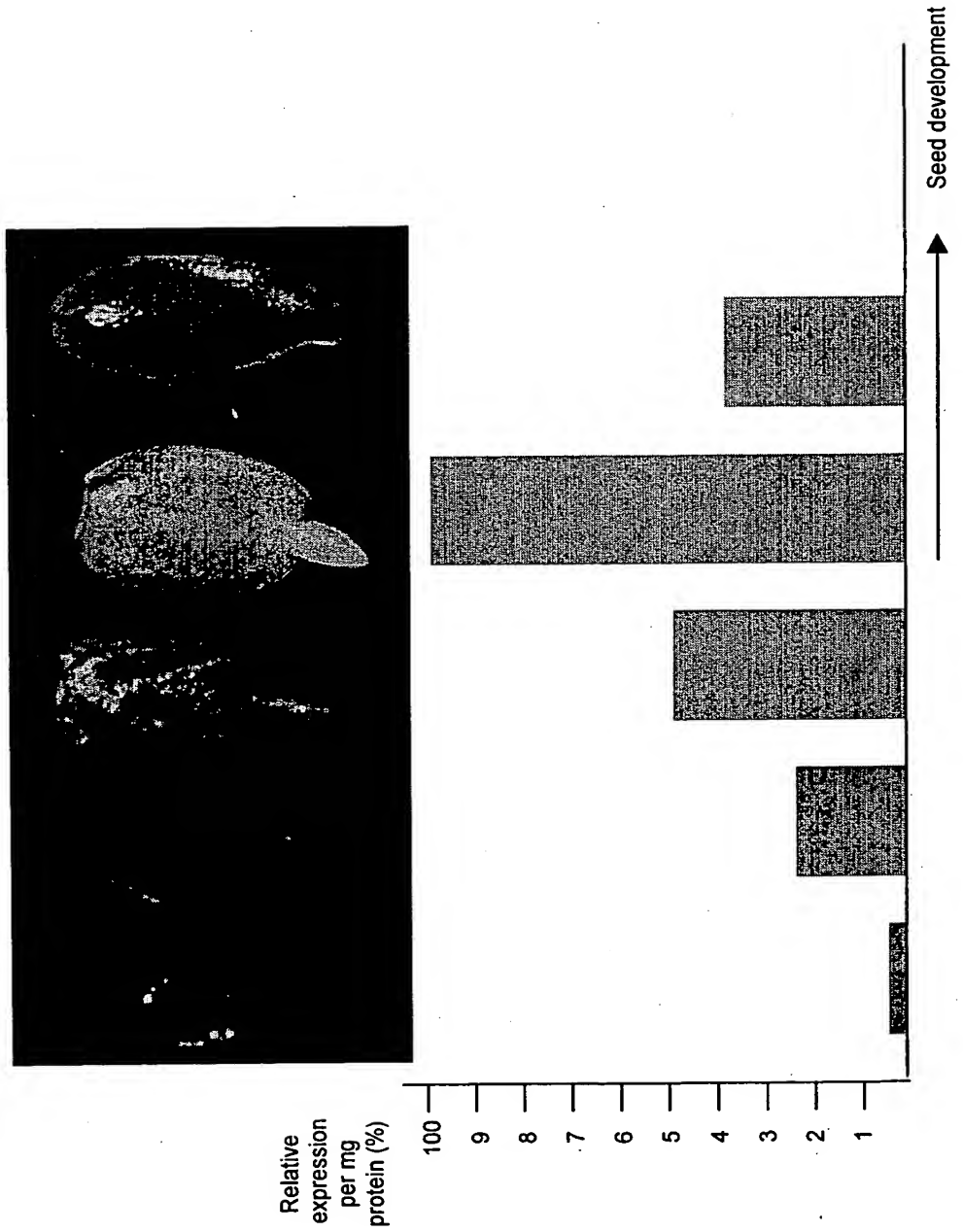

Seed development
Relative expression per mg protein (%)
100
9
8
7
6
5
4
3
2
1

FIGURE 12

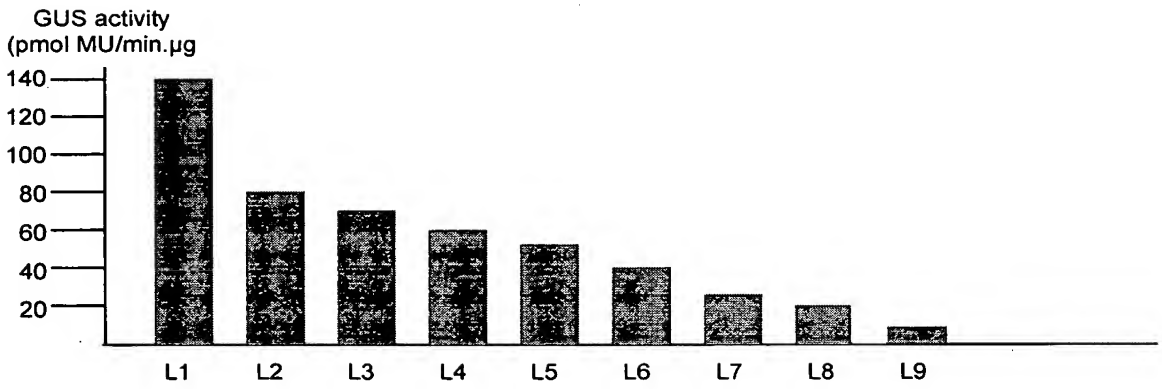
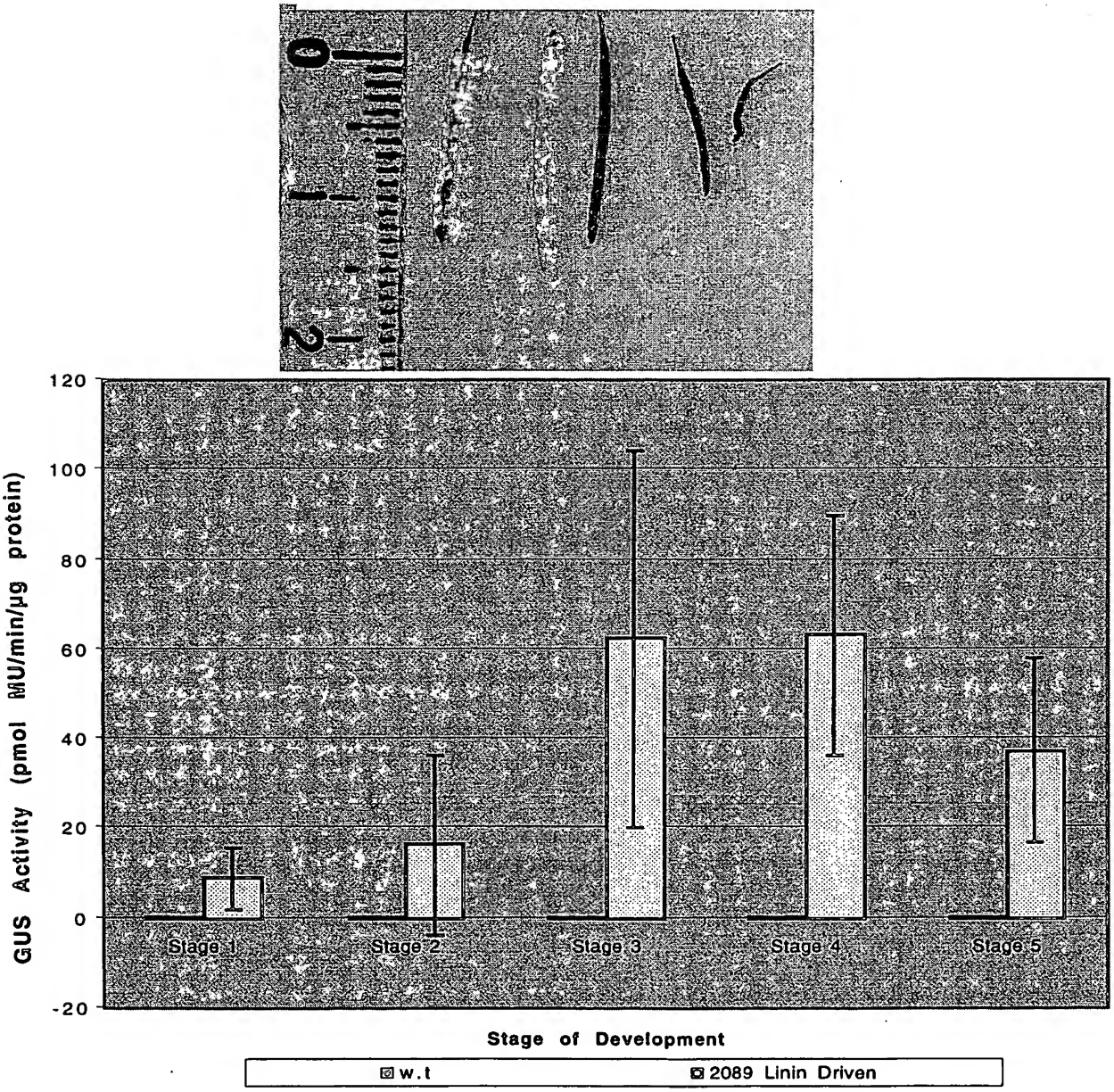

GUS activity
(pmol MU/min.µg
140
120
100
80
60
40
20
L1
L2
L3
L4
L5
L6
L7
L8
L9

FIGURE 13


GUS Activity (pmol MU/min/µg protein)
120
100
80
60
40
20
0
-20
Stage 1
Stage 2
Stage 3
Stage 4
Stage 5
Stage of Development
w.t
2089 Linin Driven